

What is claimed is:

Sub A2 7 1. A computer implemented method of controlling system performance comprising the steps of:

analyzing operating software program scheduling information; and  
adjusting defined parameters to modify system performance.

2. The method as claimed in claim 1, wherein the defined parameters include at least one of scheduling priority, program termination, delayed restart, and program load leveling.

3. The method as claimed in claim 1, wherein the program scheduling information includes at least one of a count of the number of program schedules, a count of the number of program preempts, a count of the number of interrupts, a highest priority attained, a lowest priority attained, a program identity, a length of run-time, a count of the number of times in the idle loop, a count of the duration of the idle loop, a sequential record of scheduled programs, a sequential record of priorities, a sequential record of events, a count of the number of programs waiting to run per schedule time, and an identity of programs waiting to run per schedule time.

4. The method as claimed in claim 1, wherein said analysis step includes determining at least one of a system processing capability, a number of programs scheduled, a program run-time priority, a length of time each program executed, a number of preemptions, a number of interrupts, and an amount of idle time.

5. The method as claimed in claim 1, further comprising the step:  
monitoring operating software scheduling information.

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6. A computer system for capturing operating software scheduling information during execution of said operating software comprising:

a processor for receiving and transmitting data; and

a memory coupled to the processor, the memory having stored therein

5 sequences of instructions which, when executed by the processor, cause the processor to analyze operating software scheduling information, and adjust defined parameters to modify system performance.

7. The computer system as claimed in claim 6, wherein the memory further includes sequences of instructions which, when executed by the processor, cause the processor to monitor operating software scheduling information.

8. The computer system as claimed in claim 6, wherein the defined parameters include at least one of scheduling priority, program termination, delayed restart, and program load leveling.

9. The computer system as claimed in claim 6, wherein the program scheduling information includes at least one of a count of the number of program schedules, a count of the number of program preempts, a count of the number of interrupts, a highest priority attained, a lowest priority attained, a program identity, a length of run-time, a count of the number of times in the idle loop, a count of the duration of the idle loop, a sequential record of scheduled programs, a sequential record of priorities, a sequential record of events, a count of the number of programs waiting to run per schedule time, and an identity of programs waiting to run per schedule time.

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10. The computer system as claimed in claim 6, wherein the analysis includes determining at least one of a system processing capability, a number of programs scheduled, a program run-time priority, a length of time each program executed, a number of preemptions, a number of interrupts, and an amount of idle
- 5 time.

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